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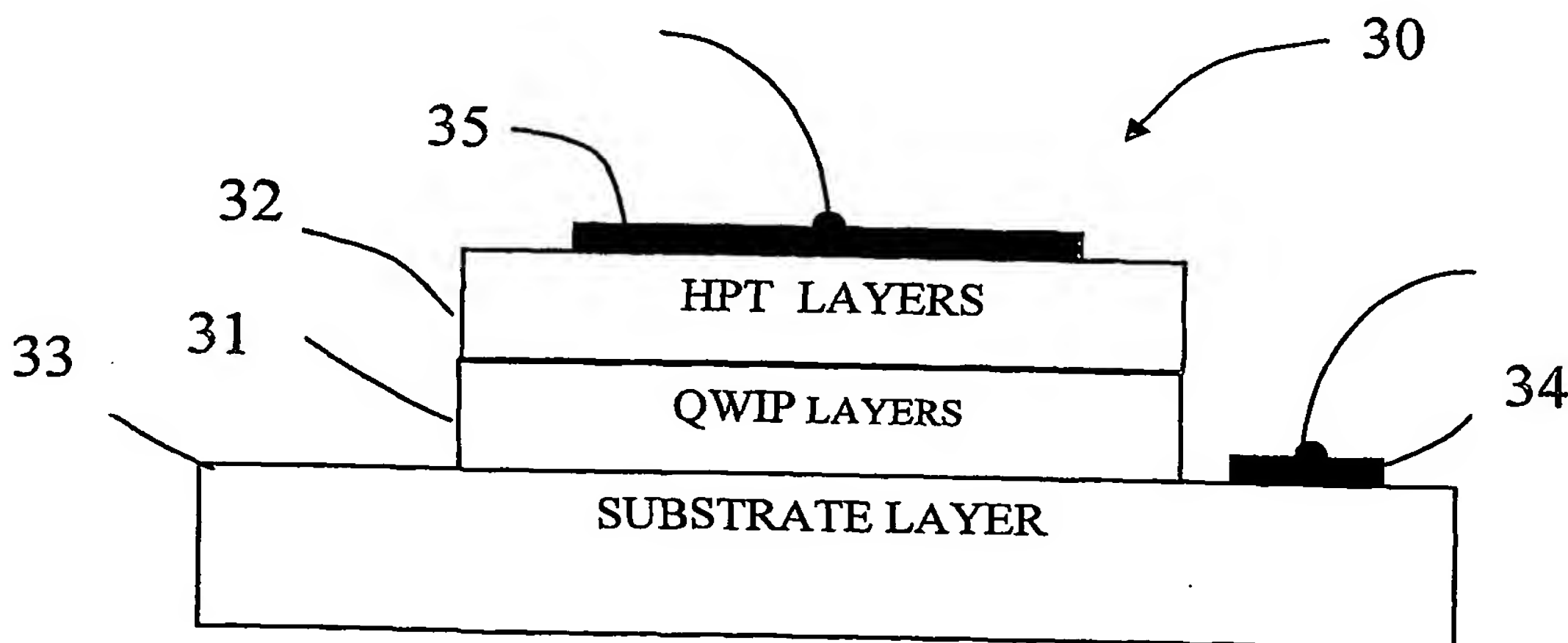
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(54) Title: VOLTAGE TUNABLE INTEGRATED INFRARED IMAGER



(57) Abstract: An integrated thermal imager for detecting combined passive LWIR or MWIR radiation of a scene and active SWIR radiation of a laser source is described. The imager includes a two-dimensional focal plane array (2D-FPA) constituted by an assembly of voltage tunable photodetectors. Each voltage tunable photodetector integrates a quantum well infrared photodetector (QWIP) together with a heterojunction bipolar phototransistor (HBPT), thereby forming a pixel element in the 2D-FPA.